Swan Htet Aung Phyo

Krakow, Poland | swanhtetaungp@gmail.com | +48 608 422691

GitHub: github.com/SwanHtetAungPhyo | Portfolio: Portfolio Link

---

Professional Summary

I am a highly motivated Computer Science student at AGH University of Science and Technology, specializing in backend development with a focus on Go and Java. I have a passion for building scalable, robust systems using both microservices and monolithic architectures. My experience includes designing efficient, fault-tolerant systems and working with modern technologies like Docker, Redis, and Spring Boot.

Fluent in English (B2 level) and Burmese (native), I thrive in collaborative environments and am eager to contribute to impactful projects. I enjoy networking with experienced developers and continuously learning from their expertise, even as I pursue my studies.

Technical Skills

- **Programming Languages**: Go, Java
- **Frameworks & Technologies**: Go Fiber, Spring Boot, Docker, Redis, MySQL,Postgres, REST API,
- **Secondary as Knowledge and HandOns**: Prometheus and CI/CD
- **Operating Systems**: Linux, Mac
- **Tools**: GitHub, Maven, YAML, Git, Markdown
- **Other**: Data Structures and Algorithms, Unix

Key Projects

```
24
25
26
27 ### SwiftCode Management System
28
29 **GitHub Repository**: [SwiftCode](https://github.
   com/SwanHtetAungPhyo/SwiftCode)
30
31 Developed a scalable SwiftCode management system
   using Go, Gin, and PostgreSQL to process and
   normalize banking data from CSV files. The
   application supports real-time API access, load
   testing with Prometheus, and visualization through
   Grafana. Key features include:
32
33 - **CSV Parsing & Data Normalization**: Efficiently
    processed raw data into a normalized database
   structure.
34 - **API & Monitoring**: Built a RESTful API and
   integrated Prometheus/Grafana for load testing and
   performance monitoring.
35 - **Resiliency & Scalability**: Implemented retry
   mechanisms and optimized database queries for
   performance.
36
37
38 **Tech Stack**: Go, Gin, PostgreSQL, Prometheus,
   Grafana, GORM
39
40 ---
41
42 ### Distributed Ledger Inspired by Blockchain
43 [GitHub Repository](https://github.com/
   SwanHtetAungPhyo/SwanVerse) | Duration: Feb 29,
   2024 - Ongoing
44 - Designed and implemented a distributed ledger
   system inspired by blockchain technology.
45 - Ensured data persistence across multiple nodes,
   with each node maintaining a complete copy of the
   ledger.
46 - Integrated data encryption and signature
```

46 verification to secure transactions.
47 - This project will serve as the foundation for my
   second-year final project.
48
49 ### Custom API Gateway (Go)
50 [GitHub Repository](https://github.com/
   SwanHtetAungPhyo/SPI Custom APIGateway) | Duration
   : Nov 12, 2024 - Dec 29, 2024
51 - Built a scalable API Gateway using Go, Docker,
   and YAML configurations.
52 - Implemented fault-tolerant routing and robust
   request handling for microservices communication.
53 - Deployed in a containerized environment to ensure
    scalability and efficiency.
54 - Publicly available via Docker image: `
   swanhtetaungphyo1/spi_gateway:latest`.
55
56 ### Tree Walk Interpreter (Go)
57 [GitHub Repository](https://github.com/
   SwanHtetAungPhyo/Interpreter) | Duration: Oct 31 -
   Nov 1, 2024
58 - Designed and implemented a tree-walk interpreter
   for a custom scripting language.
59 - Enhanced performance using Go's concurrency model
    for parsing and execution.
60 - Developed an efficient tokenizer and implemented
   error recovery for invalid syntax.
61
62 ### Closure Custom Web Framework (Go)
63 [GitHub Repository](https://github.com/
   SwanHtetAungPhyo/swantemp) | Duration: Nov 3 - Nov
   20, 2024
64 - Developed a custom web framework inspired by
   Express.js to understand the inner workings of web
   frameworks.
65 - Built on top of fasthttp for high performance.
66 - Implemented a chain-based architecture for
   middleware and routing.
67 - Thoroughly tested for reliability and scalability
   .
68

69 ### SwanLib (Go)
70 [GitHub Repository](https://github.com/SwanHtetAungPhyo/swan_lib) | Duration: Nov 25 - Dec 5, 2024
71 - Created a Go library to simplify JWT authentication, CORS handling, and common API tasks for `net/http`.
72 - Built to reduce repetitive code and improve efficiency in microservice development.
73 - Focused on ease of use and modularity to help developers focus on business logic.
74
75 ### Scache: Lightweight Key-Value Cache (Go)
76 [GitHub Repository](https://github.com/SwanHtetAungPhyo/Scache)
77 - Designed an in-memory caching system inspired by Redis, supporting SET, GET, and DELETE operations.
78 - Built a simple CLI for real-time interaction using Go.
79 - Utilized Go's concurrency primitives for thread-safe operations.
80 - Created for educational purposes, emphasizing performance and simplicity.
81
82 ### Article Approval System (Java)
83 [GitHub Repository](https://github.com/SwanHtetAungPhyo/Article_approval) | Duration: Oct 29 - Nov 5, 2024
84 - Developed a content management system with a structured article approval workflow.
85 - Integrated secure user authentication and role-based access control.
86 - Built with Spring Boot to ensure modularity and maintainability of the backend architecture.
87
88 ---
89
90
91 ## Key Team Projects
92

Edu-Verse: A Comprehensive Educational Platform
[GitHub Repository](https://github.com/one-project-one-month/edu-verse) | Duration: May 20 - June 25, 2024
- Developed a feature-rich educational platform integrating learning resources and interactive features.
  Technologies Used: Java, Spring Boot, MySQL, REST APIs
- Designed and implemented backend services using Spring Boot for interactive content delivery.
- Built robust authentication and authorization mechanisms using Spring Security.
- Deployed scalable microservices to handle high user traffic efficiently.
- Collaborated on database schema design to optimize query performance and maintain data integrity.

Project I'm Contributing to Myanmar

Digital Identifier for Myanmar to Reduce Online Money Fraud

White Paper
[GitHub Repository](https://github.com/SwanHtetAungPhyo/did_white_paper)

Starter Code
[GitHub Repository](https://github.com/SwanHtetAungPhyo/KYC_DID_AUTHENTICATION_SYSTEM)

Overview
This project aims to leverage cryptographic keys and key chain stores to create a robust authentication system that can help reduce online money fraud in Myanmar. The system can be used for various humanitarian applications, ensuring

115 secure digital identities for individuals and
improving trust in digital transactions.
116
117 The goal is to provide a scalable and secure
authentication solution, which is crucial in
protecting users from fraudulent activities while
enabling seamless access to digital services.
118
119 ## Education
120 **Bachelor's in Computer Science**
121 AGH University of Science and Technology | Krakow
, Poland
122 Oct 2023 - Feb 2027 (Currently pursuing)
123
124 ---
125
126 ## Languages
127 - **English**: B2 Level
128 - **Burmese**: Native
129
130 ---
131
132 ## Work Experience and Vlounteer
133
134 - Volunteer as student developer in myanmar
developer community
135 - Part time chef at an asian restaurant(2022-2023)
136 - Part time at Mc Donal's (2024-Ongoing)
137
138 ## Current Focus & Interests
139 - **Learning**: Go for Concurrency, AWS Cloud
Services, Terraform
140 - **Areas of Interest**: Distributed Systems,
Microservices
141
142 ---
143
144 ## Achievements
145 **Accenture North America Coding: Development &
Advanced Engineering Job Simulation**
146 Completed: June 2024

```
147 - Supported a client with a small development team
      overwhelmed by the growth of their codebase.
148 - Wrote a Java class to perform search
      functionality on an interactive website using the
      Spring Boot framework.
149 - Set up automated builds using Jenkins to
      validate code changes on every push.
150 - Managed the team's workload by preparing for a
      sprint and writing user stories in an Agile
      planning session.
151
152 ---
153
154 ## Work Authorization
155 No special work permission required to work in
      Poland.
156
```